Cat. No. 14-1233

OWNER'S MANUAL

Please read before using this equipment.

SCP-90

sports

AM/FM Stereo Cassette Player
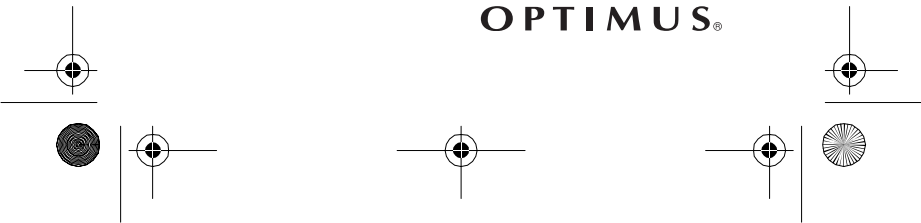
OPTIMUS®

FEATURES

Your Optimus SCP-90 AM/FM Stereo Cassette Player is lightweight, portable, and easy to operate. It delivers excellent sound through the supplied in-ear sports headphones or through your speakers, and includes these features:

All Weather Design — the sealed cassette compartment protects your tape from wind, dust, and rain.

Auto-Stop — automatically stops tape playback at the end of a tape side to protect the tape-handling parts.

Bass Boost — provides richer, fuller bass sound.

Automatic Frequency Control Circuit — helps lock FM tuning for drift-free reception.

Three Power Sources — let you power the SCP-90 from internal batteries, AC power, or vehicle battery power.

Removable Belt Clip — allows hands-free carrying when you are on the go.

Note: You need two AA batteries, an AC adapter, or a DC adapter to power the SCP-90. To listen to your SCP-90, you can use the supplied in-ear sports headphones (or other headphones) or a pair of amplified speakers (not supplied) with a $1/8$-inch mini plug. Your local RadioShack store carries a wide selection of batteries and speakers.

CONTENTS

PREPARATION

CONNECTING POWER

Using Batteries

To power the SCP-90 with batteries, you need two AA batteries (not supplied). We recommend alkaline batteries, such as RadioShack Cat. No. 23-557.

Follow these steps to install batteries.

1. Pull up the black cassette compart-ment latch and pull open the cassette compartment door.

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2. Press the battery compartment cover's tab in the direction of the arrow and lift off the cover.

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3. Install the batteries over the ribbon, as indicated by the polarity symbols (+ and –) marked inside the compartment.

   Cautions:

   • Use only fresh batteries of the required size and recommended type.

   • Do not mix old and new batteries, different types of batteries (standard, alkaline, or rechargeable), or rechargeable batteries of different capacities.

4. Replace the battery compartment cover, then close the cassette compartment door and latch.

If the SCP-90 does not operate properly or if the sound becomes weak or distorted, replace the batteries.

Cautions:

• Always dispose of old batteries promptly and properly.

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- Never leave dead, old, or weak batteries in the SCP-90. Batteries can leak chemicals that can corrode or damage electronic circuits.

- If you do not plan to power the SCP-90 with batteries for several days, or if you plan to power it using only an AC or DC adapter, remove the batteries to protect the SCP-90 from possible battery leakage.

Using AC Power

To power the SCP-90 with standard AC power, you need an optional AC adapter, such as RadioShack Cat. No. 273-1654.

Cautions:

- The recommended AC adapter supplies 3 volts and delivers at least 250 milliamps. Its center tip is set to negative, and its barrel plug correctly fits the SCP-90's **DC 3V** jack. Using an adapter that does not meet these specifications could damage the SCP-90 or the adapter.

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- Always connect the adapter to the SCP-90's **DC 3V** jack before you connect it to the AC outlet. Then disconnect the adapter from the AC outlet before disconnecting it from the SCP-90.

Follow these steps to power the SCP-90 from a standard AC outlet.

1. Set the adapter's voltage switch to 3V.

2. Put the adapter's 3.4 mm outer diameter/1.3 mm inner diameter barrel plug onto the adapter's cord so it reads –TIP.

    Add Illust.

3. Pull out the attached rubber plug from the SCP-90's **DC 3V** jack.

4. Insert the adapter's barrel plug into the SCP-90's **DC 3V** jack.

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5. Plug the adapter
into a standard AC
outlet.

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Notes:

• Internal batteries (if installed) automatically dis-
connect when you plug the AC adapter into the
SCP-90.

• Disconnect the adapter and reinsert the jack's
rubber plug when you are not using the SCP-90.

Using Vehicle Battery Power

To power the SCP-90 from your vehicle's cigarette-
lighter socket, you need an optional DC adapter,
such as RadioShack Cat. No. 270-1560.

Cautions:

- The recommended DC adapter supplies 3 volts and delivers at least 250 milliamps. Its center tip is set to negative, and its barrel plug correctly fits the SCP-90's **DC 3V** jack. Using an adapter that does not meet these specifications could damage the SCP-90 or the adapter.

- Always connect the adapter to the SCP-90's **DC 3V** jack before you connect it to the cigarette-lighter socket. Then disconnect the adapter from the cigarette-lighter socket before disconnecting it from the SCP-90.

Follow these steps to power the SCP-90 from your vehicle's cigarette-lighter socket.

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1. Set the adapter's voltage switch to 3V.

2. Insert the adapter's 3.4 mm outer diameter/1.3 mm inner diameter barrel plug into the adapter's cord so it reads –TIP.

3. Pull out the attached rubber plug from the SCP-90's **DC 3V** jack.

4. Insert the adapter's barrel plug into the SCP-90's **DC 3V** jack.

5. Plug the adapter into the vehicle's cigarette-lighter socket.

Notes:

• If the SCP-90 does not operate properly when you use DC power, be sure the cigarette-lighter socket is clean and that the adapter's plug is pushed all the way into the socket.

• Internal batteries (if installed) automatically disconnect when you plug the adapter into the **DC 3V** jack.

• Disconnect the adapter and reinsert the jack's rubber plug when you are not using the SCP-90.

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CONNECTING THE HEADPHONES OR SPEAKERS

To listen to your SCP-90, connect the supplied in-ear sports headphones (or other headphones) or a pair of amplified speakers (not supplied) with a $1/8$-inch mini plug.

Pull out the attached rubber plug from the SCP-90's **PHONES** jack, then plug in the headphones' or speakers' $1/8$-inch plug.

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When you are not using your SCP-90 and headphones or speakers are disconnected, put the rubber plug back into the **PHONES** jack to protect against moisture and dust.

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Listening Safely

To protect your hearing, follow these guidelines when you use the headphones.

- Set the volume to the lowest setting before you begin listening. After you begin listening, adjust the volume to a comfortable level.

- Do not listen at extremely high volume levels. Extended high-volume listening can lead to permanent hearing loss.

- Once you set the volume, do not increase it. Over time, your ears adapt to the volume level, so a volume level that does not cause discomfort might still damage your hearing.
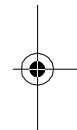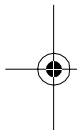
Traffic Safety

Do not wear headphones while operating a motor vehicle or riding a bicycle. This can cause a traffic hazard and can be illegal in some areas.
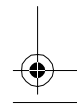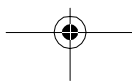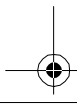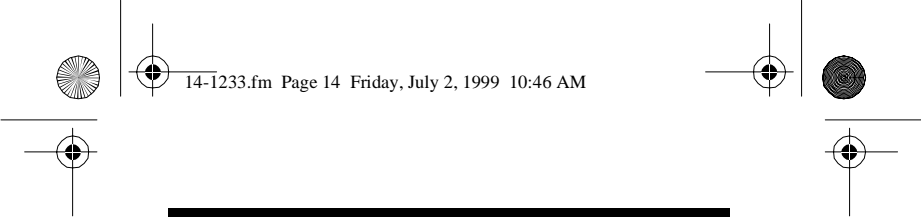
Even though some headphones are designed to let you hear some outside sounds when listening at normal volume levels, they still can present a traffic hazard.
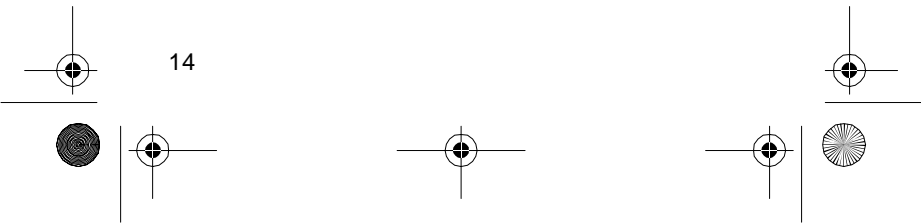
USING THE BELT CLIP

For hands-free carrying, slide the belt clip over your belt.

To remove the belt clip, use a Phillips screwdriver to loosen the screw holding the clip. Then lift off the clip.

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To replace the belt clip, position it as shown, then replace and tighten the screw.
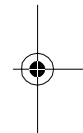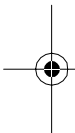
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RADIO OPERATION

Important: Make sure you have connected head-phones or speakers to the SCP-90.
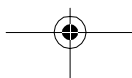
1. Set **RADIO OFF/TAPE/FM ST/AM** to **FM ST** or **AM** to turn on the radio.

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2. Adjust **VOLUME** to the desired listening level.

3. Turn **TUNING** to select the desired station.

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Note: The AM antenna is built-in. Rotate the cassette player to improve AM reception. For the best FM reception, fully extend the headphones' or speakers' cord.

4. Set **BASS BOOST** to **ON** for an enhanced bass effect. Set it to **OFF** for normal bass sound.

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5. Set **RADIO OFF/TAPE/FM ST/AM** to **RADIO OFF/ TAPE** to turn off the radio.

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CASSETTE OPERATION

PLAYING A CASSETTE TAPE

1. Take up any slack in the tape by turning the cassette's hub with a pencil. Do not touch the exposed tape.

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2. Pull up the cassette compartment latch and pull open the door.
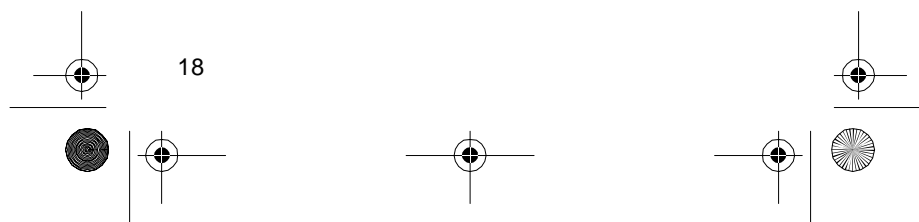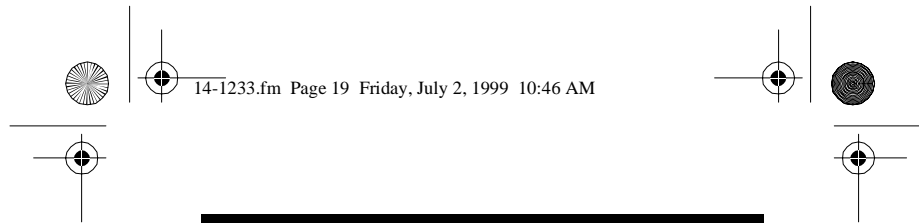
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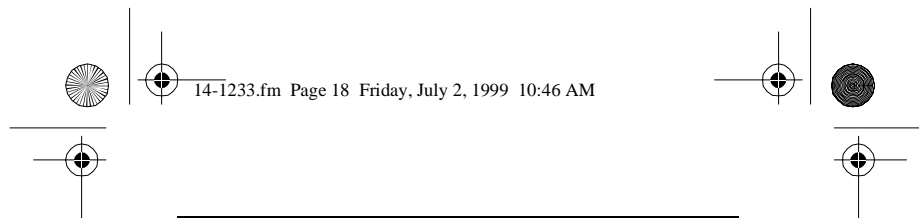
3. With its open edge facing up and the full reel to the left, insert the cassette tape into the cassette guide.

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4. Close the door and the latch.

5. Set **RADIO OFF/TAPE/FM ST/AM** to **RADIO OFF/ TAPE**.

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6. Press **PLAY** to start play.

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7. Adjust **VOLUME** to the desired listening level.

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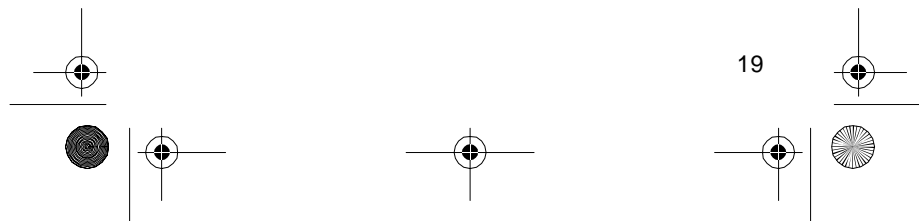
8. Set **BASS BOOST** to **ON** for an enhanced bass effect. Set it to **OFF** for normal bass sound.

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9. To stop playback, press **STOP**.

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Notes:

- The SCP-90 automatically stops when the tape reaches the end of that side during playback.

- To advance the tape quickly, press **F.FWD**. The button locks down, and the tape fast forwards until you press **STOP**. To rewind the tape, turn the tape over and press **F.FWD**.

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TAPE TIPS

Tape Quality

For the best performance, use only regular length (60- or 90-minute) cassette tapes. We do not recommend long-playing cassette tapes, such as C-120s, because they are extremely thin and can easily tangle in the playback mechanism.

Restoring Tape Tension and Sound Quality

After you play a cassette tape several times, the tape might become tightly wound on the reels. This can cause playback sound quality to deteriorate.

To restore the sound quality, fast-forward the tape from the beginning to the end of one side, then turn it over and completely fast-forward the other side. Then loosen the tape reels by gently tapping each side of the cassette's outer shell on a flat surface.
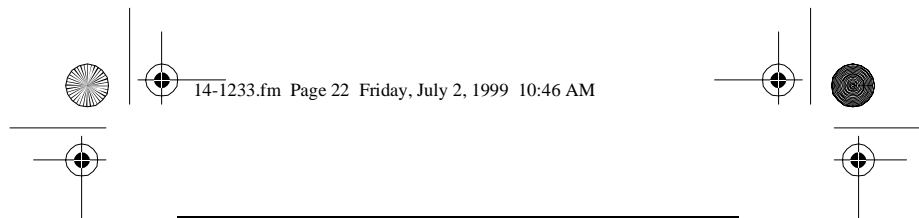
Caution: Be careful not to damage the cassette when tapping it. Do not touch the exposed tape or allow any sharp objects near the cassette.

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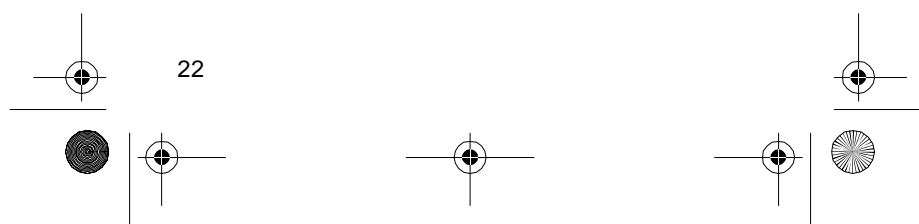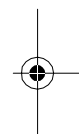
MAINTENANCE

Your Optimus SCP-90 AM•FM Stereo Cassette Player is an example of superior design and craftsmanship. The following suggestions will help you care for the SCP-90 so you can enjoy it for years.

- Keep the SCP-90 dry. If it gets wet, wipe it dry.

- Use and store the SCP-90 only in normal temperature environments.

- Handle the SCP-90 gently and carefully. Don't drop it.

- Keep the SCP-90 away from dust and dirt.

- Occasionally wipe the SCP-90 with a damp cloth to keep it looking new.

Modifying or tampering with the SCP-90's internal components can cause a malfunction and might invalidate its warranty and void your FCC authorization to operate it. If your SCP-90 is not performing as it should, take it to your local RadioShack store for assistance.

CLEANING THE TAPE-HANDLING PARTS

Dirt, dust, or particles of the tape's coating can accumulate on the tape head and other parts that the tape touches. This can reduce the SCP-90's performance.

Follow these steps to clean the tape-handling parts after about every 20 hours of tape player operation.

1. Open the cassette compartment latch and door.

2. Remove the batteries and disconnect any other power source.

3. Press **PLAY** to expose the tape-handling parts.

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4. Use a cotton swab dipped in denatured alcohol or tape head cleaning solution to clean the playback head, pinch roller, capstan and tape guides.

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5. When you finish cleaning, press **STOP**, reinstall batteries (if necessary)**,** and close the compartment door and latch.

Note: Your local RadioShack store sells a complete line of cassette deck cleaning supplies.

FCC INFORMATION

Your SCP-90 might cause TV or radio interference even when it is operating properly. To determine whether your SCP-90 is causing the interference, turn off your SCP-90. If the interference goes away, your SCP-90 is causing it. Try to eliminate the interference by:

- Moving your SCP-90 away from the receiver

- Connecting your SCP-90 to an outlet that is on a different electrical circuit from the receiver

- Contacting your local RadioShack store for help

SPECIFICATIONS

GENERAL

Power Requirements .... 3 Volts DC
Two AA Batteries (Cat. No. 23-557),
3-Volt AC Adapter (Cat. No. 273-1654), or
3-Volt DC Adapter (Cat. No. 270-1560)

Dimensions (HWD) .... $1^{15}/_{16}$ ¥ 5 ¥ $4^{5}/_{16}$ Inches
(48 ¥ 127 ¥ 109 mm)

Weight (Without Batteries) .... 9.2 oz
(260 g)

RADIO

Frequency Range .... FM 88–108 MHz
AM 530–1710 kHz

CASSETTE PLAYER

Tape System .... 4-Track, Stereo

Tape Speed .... $1^{7}/_{8}$ Inches per Second

Wow and Flutter 0.35%

Specifications are typical; individual units might vary. Specifications are subject to change and improvement without notice.

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Limited Ninety-Day Warranty

This product is warranted by RadioShack against manufacturing defects in material and workmanship under normal use for ninety (90) days from the date of purchase

from RadioShack company-owned stores and authorized RadioShack franchisees and dealers. EXCEPT AS PROVIDED HEREIN, RadioShack MAKES NO EXPRESS WARRANTIES AND ANY IMPLIED WARRANTIES, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO THE DURATION OF THE WRITTEN LIMITED WARRANTIES CONTAINED HEREIN. EXCEPT AS PROVIDED HEREIN, RadioShack SHALL HAVE NO LIABILITY OR RESPONSIBILITY TO CUSTOMER OR ANY OTHER PERSON OR ENTITY WITH RESPECT TO ANY LIABILITY, LOSS OR DAMAGE CAUSED DIRECTLY OR INDIRECTLY BY USE OR PERFORMANCE OF THE PRODUCT OR ARISING OUT OF ANY BREACH OF THIS WARRANTY, INCLUDING, BUT NOT LIMITED TO, ANY DAMAGES RESULTING FROM INCONVENIENCE, LOSS OF TIME, DATA, PROPERTY, REVENUE, OR PROFIT OR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, EVEN IF RadioShack HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Some states do not allow the limitations on how long an implied warranty lasts or the exclusion of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

In the event of a product defect during the warranty period, take the product and the RadioShack sales receipt as proof of purchase date to any RadioShack store. RadioShack will, at its option, unless otherwise provided by law: (a) correct the defect by product repair without charge for parts and labor; (b) replace the product with one of the same or similar design; or (c) refund the purchase price. All replaced parts and products, and products on which a refund is made, become the property of RadioShack. New or reconditioned parts and products may be used in the performance of warranty service. Repaired or replaced parts and products are warranted for the remainder of the original warranty period. You will be charged for repair or replacement of the product made after the expiration of the warranty period.

This warranty does not cover: (a) damage or failure caused by or attributable to acts of God, abuse, accident, misuse, improper or abnormal usage, failure to follow instructions, improper installation or maintenance, alteration, lightning or other incidence of excess voltage or current; (b) any repairs other than those provided by a RadioShack Authorized Service Facility; (c) consumables such as fuses or batteries; (d) cosmetic damage; (e) transportation, shipping or insurance costs; or (f) costs of product removal, installation, set-up service adjustment or reinstallation.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

RadioShack Customer Relations, Dept. W, 100 Throckmorton St., Suite 600, Fort Worth, TX 76102

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